

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Material Name:** Cascade Complete Powder (Automatic dishwashing detergent) P&G Consumer Product: Yes X No

- **Synonyms/Trade Names:** NA

- **Hazard Rating:** **4=EXTREME**
Health: 2 **3=HIGH**
Flammability: 0 **2=MODERATE**
Reactivity: 0 **1=SLIGHT**

- **Company Identification:** **Emergency Telephone Numbers**
The Procter & Gamble Company Procter & Gamble 513-627-6835
Industrial Hygiene Section Health - Ramsey/Hazard Information 800-228-5635 x129
Ivorydale Technical Center 612-851-8180 x129
Cincinnati, Ohio 45217 Transportation Incident - Chemtrec 800-424-9300
703-527-3887
- **Date:** 1/24/2000

2. COMPOSITION & INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Exposure Limits</u>
Water softeners (sodium phosphates)	7758-29-4	
(sodium carbonate)	0479-19-8	
Processing aids (sodium sulfate)	7757-82-6	
Dishwasher and china protective agents (sodium silicate)	1344-09-8	
Water spot prevention agents (nonionic surfactant)	37311-02-7	
Cleaning agents (oxygen bleach)	7632-04-4	
(enzymes)	9000-90-2	20 ng/m ³
	9014-01-1	60 ng/m ³

3. HAZARDS IDENTIFICATION

- **Emergency Overview:**
- **Potential Health Effects:**
Eye - May cause moderate, transient irritation.
Skin - Transient irritation with prolonged exposure to concentrated material
Inhalation - Heavy or prolonged exposure to dust may cause transient respiratory tract irritation. Repeated exposure to levels greater than the exposure limit may cause respiratory sensitization.
Ingestion - May cause vomiting and transient, moderate gastrointestinal irritation.

4. FIRST AID MEASURES

- **Eye** - Flush with water for 10 to 15 minutes. If irritation persists, seek medical attention.
- **Skin** - If irritation persists or reoccurs, seek medical attention.
- **Inhalation** - Move to fresh air.
- **Ingestion** - Drink a glassful of water or milk and seek medical attention.

5. FIRE FIGHTING MEASURES

- **Flash Point & Method:** N.A.
- **Explosive Limits:** LEL: N.A. UEL: N.A.

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- **Autoignition Temperature:** N.A.
- **Flammability Classification:** Non-flammable
- **Hazardous Products of Combustion:** None
- **Extinguishing Media:** CO₂, water, or dry chemical
- **Fire Fighting Instructions:** None
- **Other Fire Fighting Considerations:** None

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Use NIOSH approved dust mask if dust exceeds exposure limits. Protective gloves (rubber, neoprene) should be used for prolonged direct contact.
- **Environmental Precautions:** Prevent spills from reaching a waterway.
- **Procedures for Spill/Leak Clean-up:** Collect and place in suitable container and dispose as dry scrap, or flush with water down acceptable sewer (contains biodegradable surfactants).

7. HANDLING AND STORAGE

- **Precautions for Safe Handling:** No unusual precautions necessary. Avoid contact of cartons with moisture to avoid dispensing problems.
- **Conditions for Safe Storage:** Avoid contact of cartons with moisture to avoid dispensing problems.
- **Other Recommendations:** None

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- **Engineering Controls:** LOCAL EXHAUST None required with consumer use. May be required for handling large quantities.
MECHANICAL (General) Normal/general dilution ventilation is adequate for consumer use.
OTHER None
- **Personal Protective Equipment**
 - **Eye:** None required with normal use. With dusty conditions, or if a splash is likely, chemical goggles may be needed.
 - **Skin:** None required with normal use. Protective gloves (rubber, neoprene) should be used for prolonged direct contact.
 - **Inhalation:** None required with normal use. Use NIOSH approved dust mask if dust exceeds exposure limits.
- **Other Controls:** None required with normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** White granular agglomerate with blue granular admix. **Melting Point:** N.A.

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- **Color:** White granular agglomerate with blue and green granular admix.

Boiling Point: N.A.

- **Odor:** Product is perfumed.

Solubility in Water: Appreciable

- **Odor Threshold:** N.A.

Other Data: Bulk Density ~ 1.05 g/cc

- **Physical State:** Solid agglomerate.

- **Vapor Pressure:** N.A.

- **Vapor Density:** N.A.

10. STABILITY AND REACTIVITY

- **Possible Hazardous Reactions/Conditions:** None
- **Conditions to Avoid:** None
- **Materials to Avoid:** None
- **Hazardous Decomposition Products:** None
- **Other Recommendations:** None

11. TOXICOLOGICAL INFORMATION

Product is biodegradable.

12. ECOLOGICAL INFORMATION

Prevent large spills from reaching a waterway.

13. DISPOSAL CONSIDERATIONS

Disposal is to be performed in compliance with all local regulations. Small or household quantities may be disposed of in refuse or in a sewer. Larger quantities of contaminated material may be disposed of in municipal landfill where allowed by law.

14. TRANSPORT INFORMATION

DOT Classification: Non-Hazardous

15. ADDITIONAL REGULATORY INFORMATION

None

16. OTHER INFORMATION

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. All P&G operations must comply with applicable local and national MSDS/Hazard Communication Regulations.

NAME:

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment.